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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,557	03/02/2004	Marufa Kaniz	H1248	3296
26303 7550 909262008 ESCHWEILER & ASSOCIATES, LLC NATIONAL CITY BANK BUILDING 629 EUCLID AVE., SUTITE 1000			EXAMINER	
			GEE, JASON KAI YIN	
629 EUCLID CLEVELANI			ART UNIT	PAPER NUMBER
			2134	
			NOTIFICATION DATE	DELIVERY MODE
			09/26/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing@eschweilerlaw.com

Application No. Applicant(s) 10/791,557 KANIZ ET AL. Office Action Summary Examiner Art Unit JASON K. GEE 2134 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 07/01/2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

 This action is response to communication: pre-appeal brief filed on 07/01/2008 with acknowledgement of filing date of 03/03/2004.

- Claims 1-10 are currently pending in this application. Claim 1 is an independent claims.
- 3. No new IDS was received for this application.

Re-Opening

4. In view of the pre-appeal brief filed on 07/01/2008, PROSECUTION IS HEREBY REOPENED. A new ground or rejection is set forth below. However, since the new grounds of rejection are based on the claim amendments submitted on 01/23/2008, after a Non-Final Rejection, a Final Action will be issued.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

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A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Kambiz Zand/

Supervisory Patent Examiner, Art Unit 2134.

Claim Rejections - 35 USC § 112

 The previous 112 claim rejections have been withdrawn in response to applicant's amendment and arguments.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filled under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

 Claims 1-3, 6, 8, and 9 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Minami et al. US Patent Application Publication 2004/0062267 (hereinafter Minami).

As per claim 1, Minami teaches a network interface system for interfacing a host system with a network to provide outgoing data from the host system to the network and

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to provide incoming data from the network to the host system, the network interface system comprising; a bus interface system adapted to be coupled with a host bus in the host system and transfer data between the network interface system and the host system (paragraphs 16, 188, 189, Figures 1 and 2), a media access control system adapted to be coupled with the network and to transfer data between the network interface system and the network (paragraph 16 and throughout the reference; also Figures 1, 2); a memory system coupled with the bus interface system and the media access control system, the memory system being adapted to store incoming and outgoing data being transferred between the network and the host system (paragraphs 1745-1746 and 1765-178, and 1719-1743, wherein the memory is the IPSEC modules; also Figures 66 and 67); a security system coupled with the memory system, the security system being adapted to selectively encrypt outgoing data and to selectively decrypt incoming data (1744-1746 and 1763 to 1766), wherein the security system comprises first and second processors for encrypting the outgoing data the first and second processors each being operable independent of one another to encrypt the outgoing data (paragraphs 1744-1746), the security system being configured to send an outgoing data packet to the first processor then a subsequent outgoing data packet to the second processor, then a further subsequent outgoing data packet to the first processor, and continuing in this alternating manner, for encryption (paragraphs 1744-1746).

As per claim 2, Minami teaches wherein the two processors are also operable to authenticate the outgoing data (paragraphs 1745-1746).

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As per claim 3, Minami teaches wherein the two processors are functionally identical (paragraph 1746).

As per claim 6, Minami teaches wherein the processors each comprises pipelines for ESP encryption, ESP authentication, and AH authentication (paragraphs 1744-1746, 105, 896, 1605-1622, and throughout the reference).

As per claim 8, Minami teaches wherein the processors comprise pipelines implementing an algorithm selected from the group consisting of the DES-CBC, the 3DES-CBC, and the AES-CBC encryption algorithms (paragraph 1597; also claim 76)

As per claim 9, Minami teaches wherein teh security system further comprises a processor to selectively decrypt incoming data, wherein the security system comprises more than one processor for encrypting and authenticating outgoing data and one processor for decrypting incoming data (paragraphs 1763-1766 and 1744-1746.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary sikl in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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 Claims 4 and 5 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Minami et al. US Patent Application Publication 2004/0062267 (hereinafter Minami).

As per claim 4, Minami does not explicitly teach wherein multiple buffers coupled to the multiple processors. However, this would have been obvious. Buffers are taught throughout Minami, such as in paragraphs 1738, 1748. Even further, buffers are taught all throughout Minami, for example, in paragraphs 219, 221, 223, 509, and much more. At the time of the invention, it would have been obvious to one of ordinary skill in the art to implement multiple buffers for the multiple processors. As there are two processors both processing data in Minami, which are functionally identical, it would be inherent if not obvious that each processor would have its own input buffer and would be obvious to attach a buffer to each processor, so as to manage the data flow to each processor. By managing the data flow to the processors, the system can operate more smoothly. Data buffers are known in the art to temporarily store information, and it would be obvious to store data/packets when this data is going to be subsequently used.

Claim 5 is rejected using the same basis of arguments used to reject claim 4 above. Although claim 4 discusses input buffers, output buffers are used in the same way to temporarily store information that is going to be used subsequently, in order to allow the data to flow smoothly.

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 Claim 7 is rejected under 35 U.S.C. 103(a) as being obvious over Minami as applied above, and in view of Buer US Patent Application Publication 2004/0128553 (hereinafter Buer).

As per claim 7, the Pham combination teaches pipelining throughout Liu, but does not explicitly teach the HMAC-MD5-96 algorithm or the HMACH-SHA-1-96 algorithm. However, Buer teaches this, in paragraph 133.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to include the HMAC-MD5-96 or the HMAC-SHA-1-96 algorithm. Both these algorithms are well known in the art, and as the Minami combination is not restrictive on the algorithms used, it would have been obvious to substitute other algorithms for the ones already taught. Further, one of ordinary skill in the art would have been motivated to perform such an addition to improve packet processing techniques and to support secured data transmission over data networks (Buer paragraph 12)

11. Claim 10 is rejected under 35 U.S.C. 103(a) as being obvious over Minami, and further in view of Patt, Patel, Evers, Friendly, and Start's "One Billion Transistors, One Uniprocessor, One Chip" (hereinafter Patt).

As per claim 10, Minami seems to propose wherein teh bus interface system, the media access control system, the memory system, and the security system, are included within a single integrated circuit (Figure 1, paragraph 189, and throughout the reference). However, for further clarity, Patt discusses throughout the article that it is

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well know in the art and would be beneficial to put multiple computing devices onto one chip. For example, this is taught on page 51.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to combine the teachings of Minami with Patt. One of ordinary skill in the art would have been motivated to perform such an addition to achieve higher performance by keeping latency to a minimum, by locating on the same chip as many as possible of the structures necessary to support a high-performance uniprocessor. Patt teaches this on page 51.

Conclusion

 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

examiner should be directed to JASON K. GEE whose telephone number is (571)272-

6431. The examiner can normally be reached on M-F, 7:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Any inquiry concerning this communication or earlier communications from the

supervisor, Kambiz Zand can be reached on (571) 272-38113811. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Jason Gee

Patent Examiner Technology Center 2100

08/20/2008

/Kambiz Zand/

Supervisory Patent Examiner, Art Unit 2134